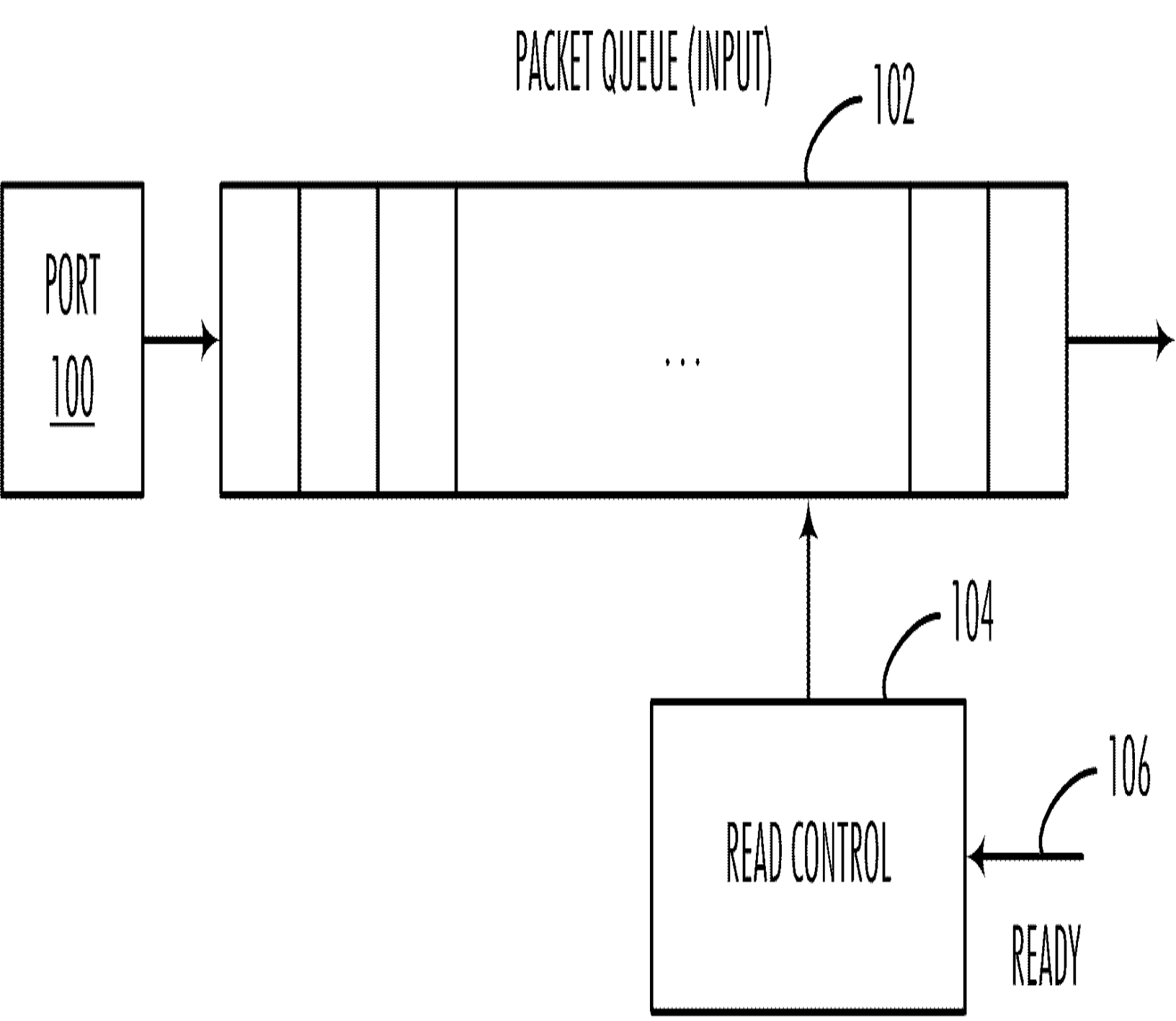

FIGURE 1

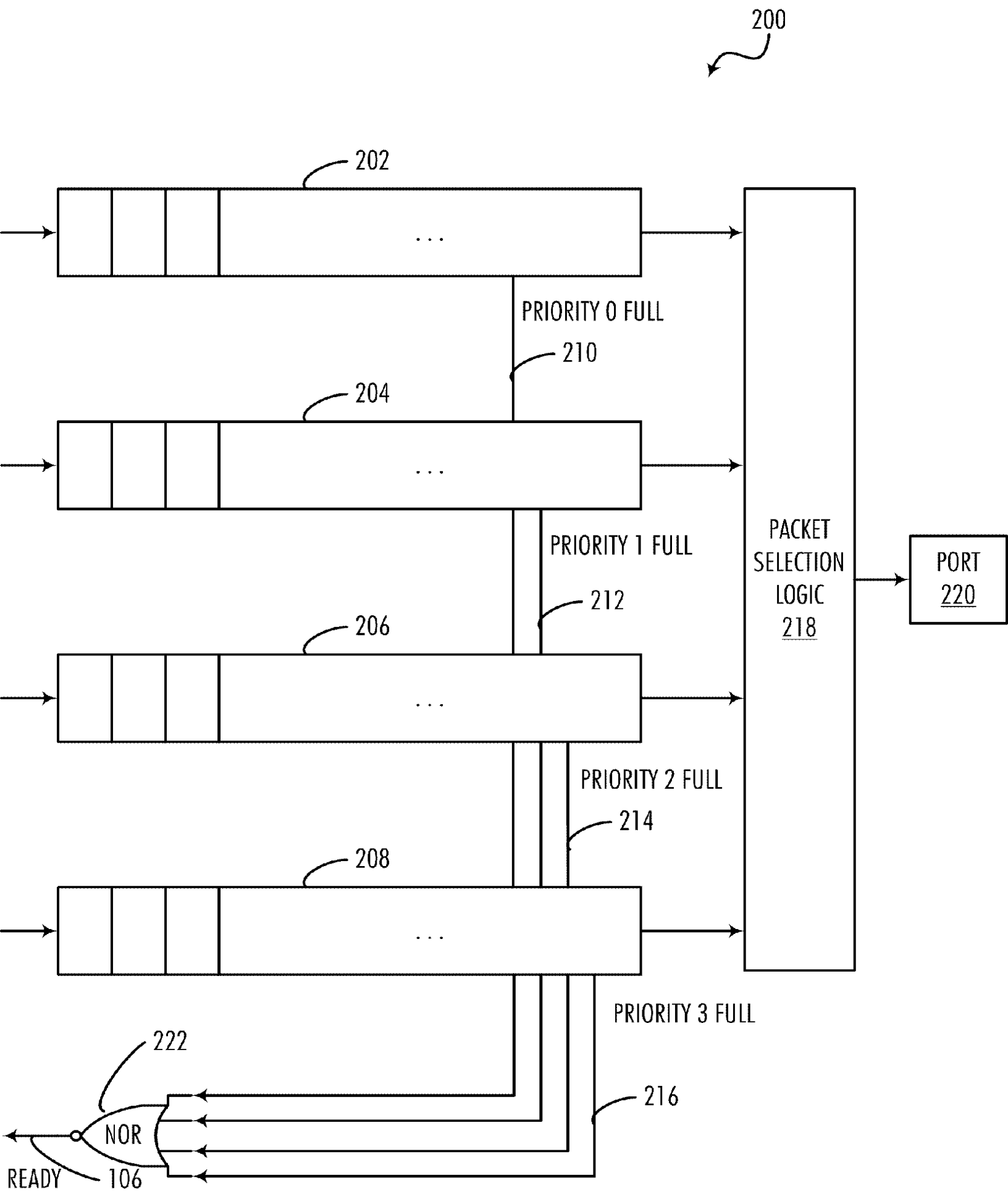
200
202
PRIORITY 0 FULL
210
204
PRIORITY 1 FULL
212
206
PRIORITY 2 FULL
214
208
PRIORITY 3 FULL
216
222
NOR
READY
106
PACKET SELECTION LOGIC 218
PORT 220

FIGURE 2

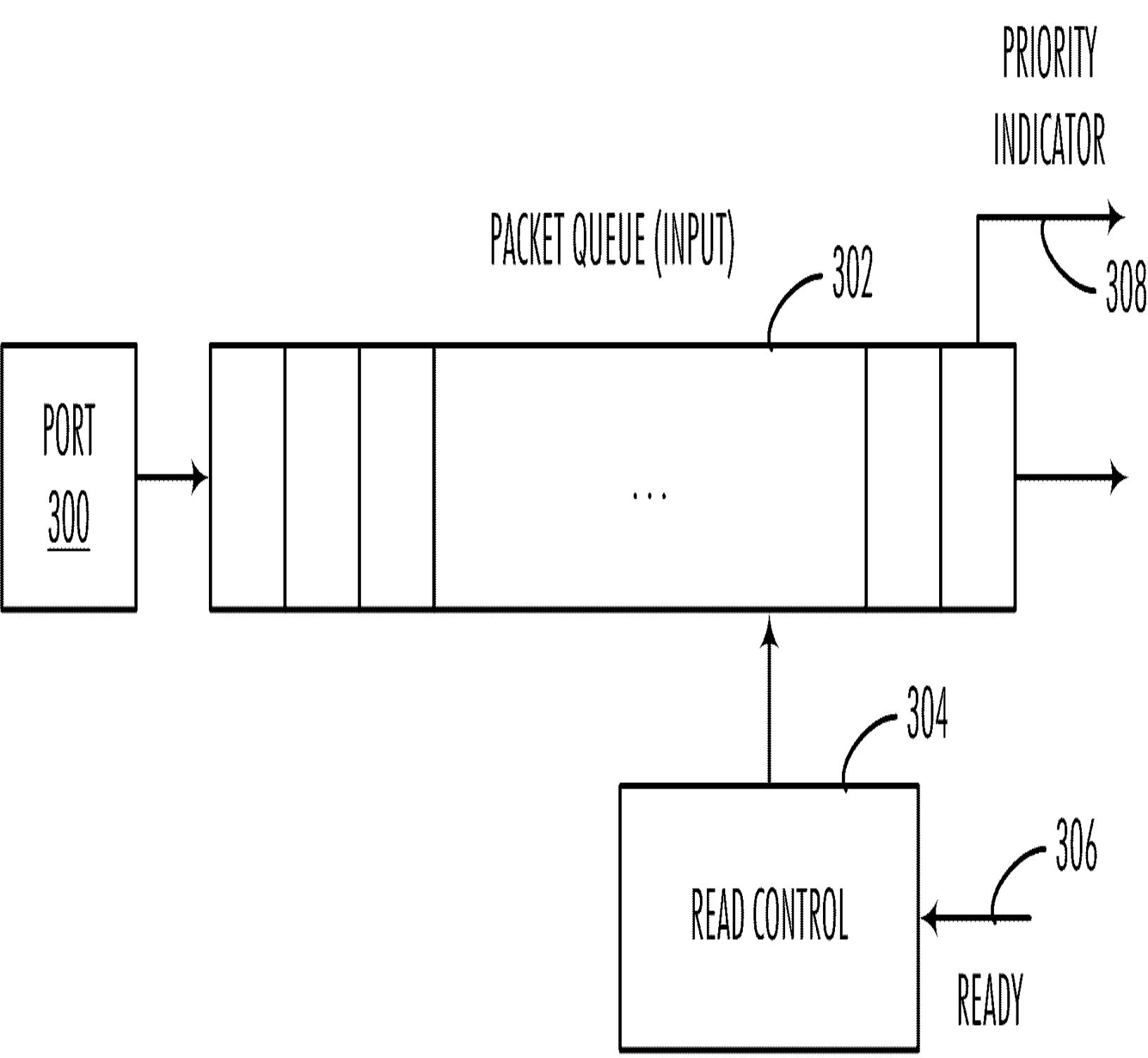
PRIORITY
INDICATOR
PACKET QUEUE (INPUT)
302
308
PORT
300
. . .
304
READ CONTROL
306
READY

FIGURE 3

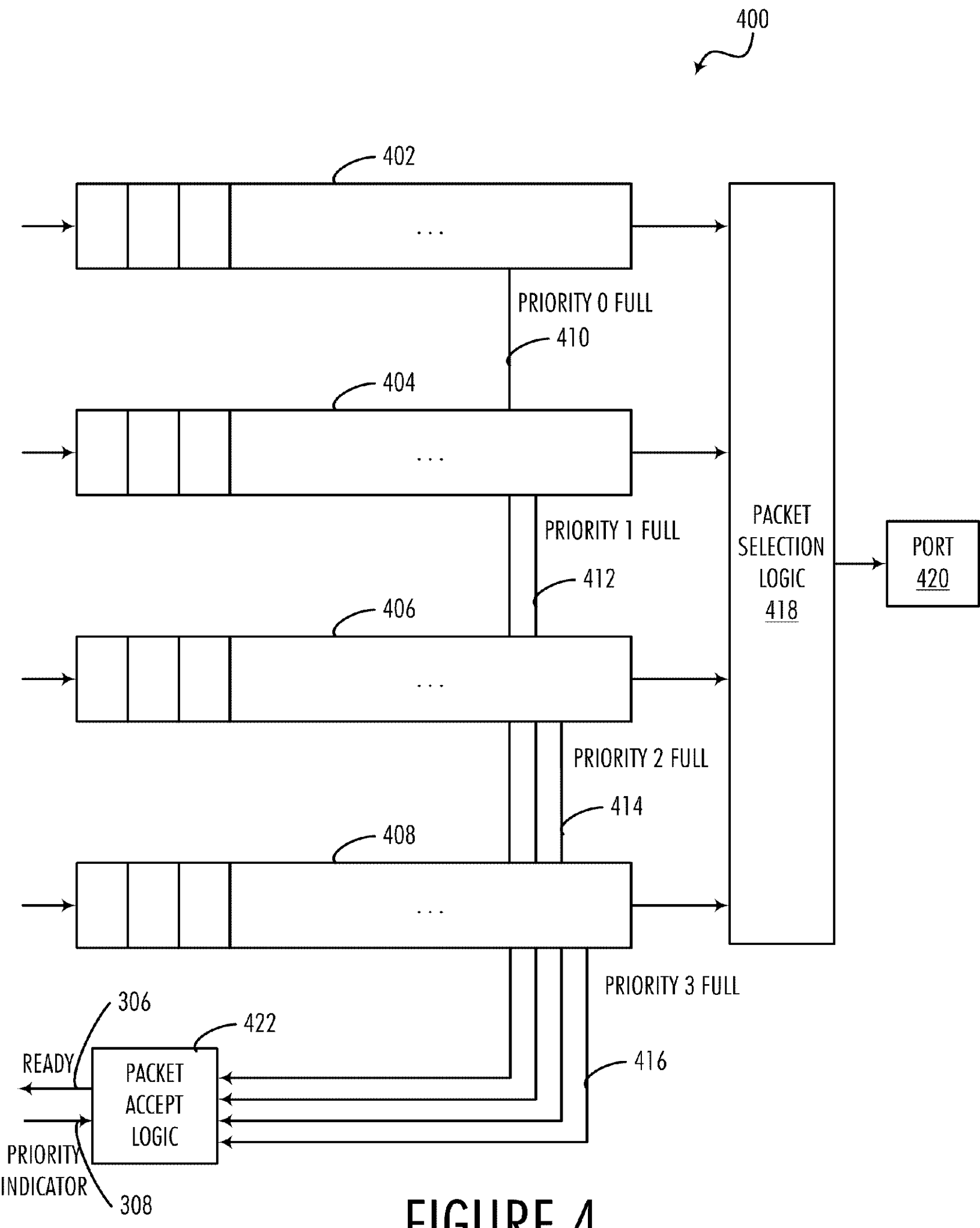
400
402
PRIORITY 0 FULL
410
404
PRIORITY 1 FULL
412
406
PRIORITY 2 FULL
414
408
PRIORITY 3 FULL
416
PACKET SELECTION LOGIC 418
PORT 420
306
422
READY
PACKET ACCEPT LOGIC
PRIORITY INDICATOR
308

FIGURE 4

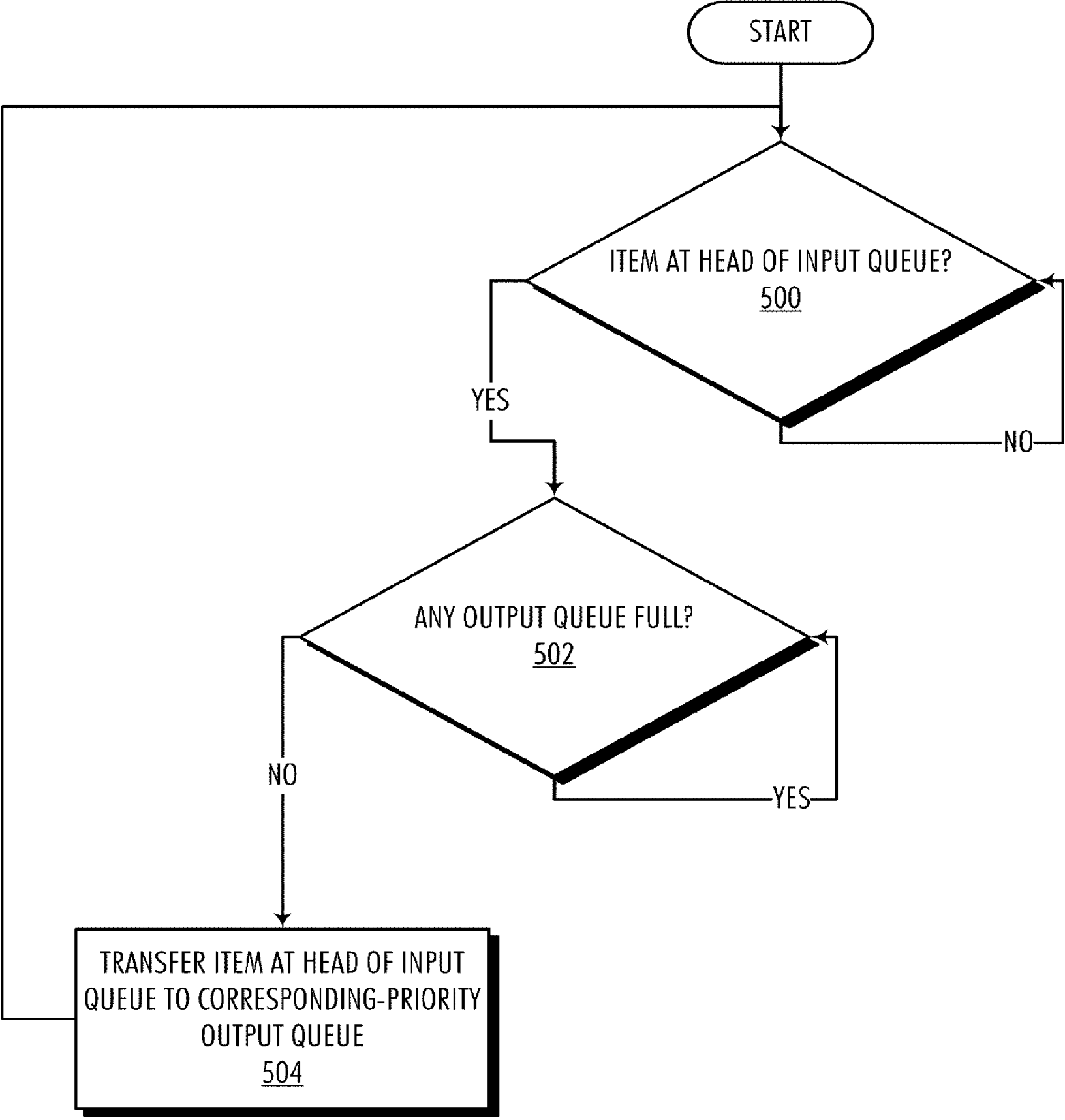
START
ITEM AT HEAD OF INPUT QUEUE?
500
YES
NO
ANY OUTPUT QUEUE FULL?
502
NO
YES
TRANSFER ITEM AT HEAD OF INPUT QUEUE TO CORRESPONDING-PRIORITY OUTPUT QUEUE
504

FIGURE 5

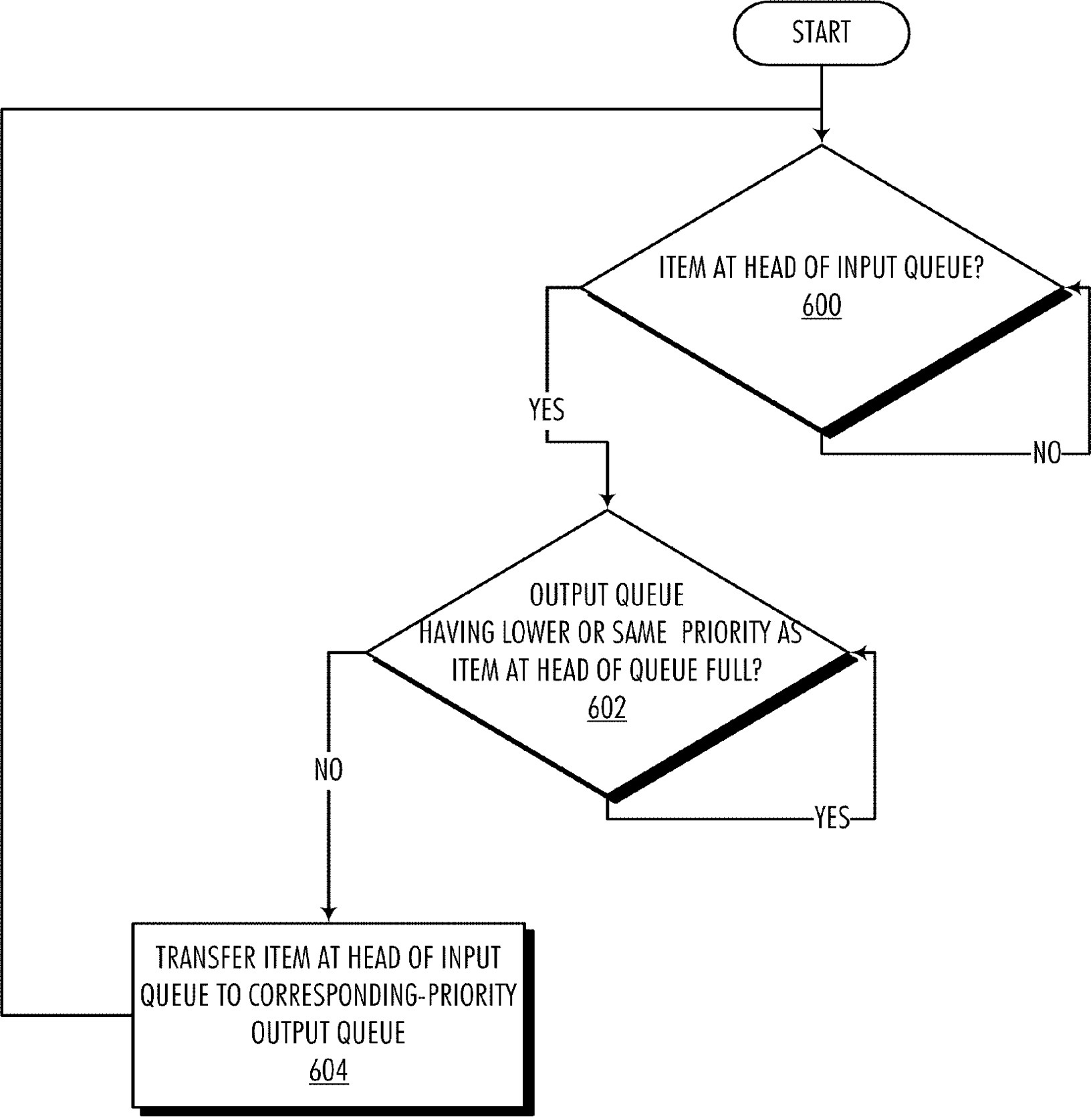
START
ITEM AT HEAD OF INPUT QUEUE?
600
YES
NO
OUTPUT QUEUE
HAVING LOWER OR SAME PRIORITY AS
ITEM AT HEAD OF QUEUE FULL?
602
NO
YES
TRANSFER ITEM AT HEAD OF INPUT
QUEUE TO CORRESPONDING-PRIORITY
OUTPUT QUEUE
604

FIGURE 6

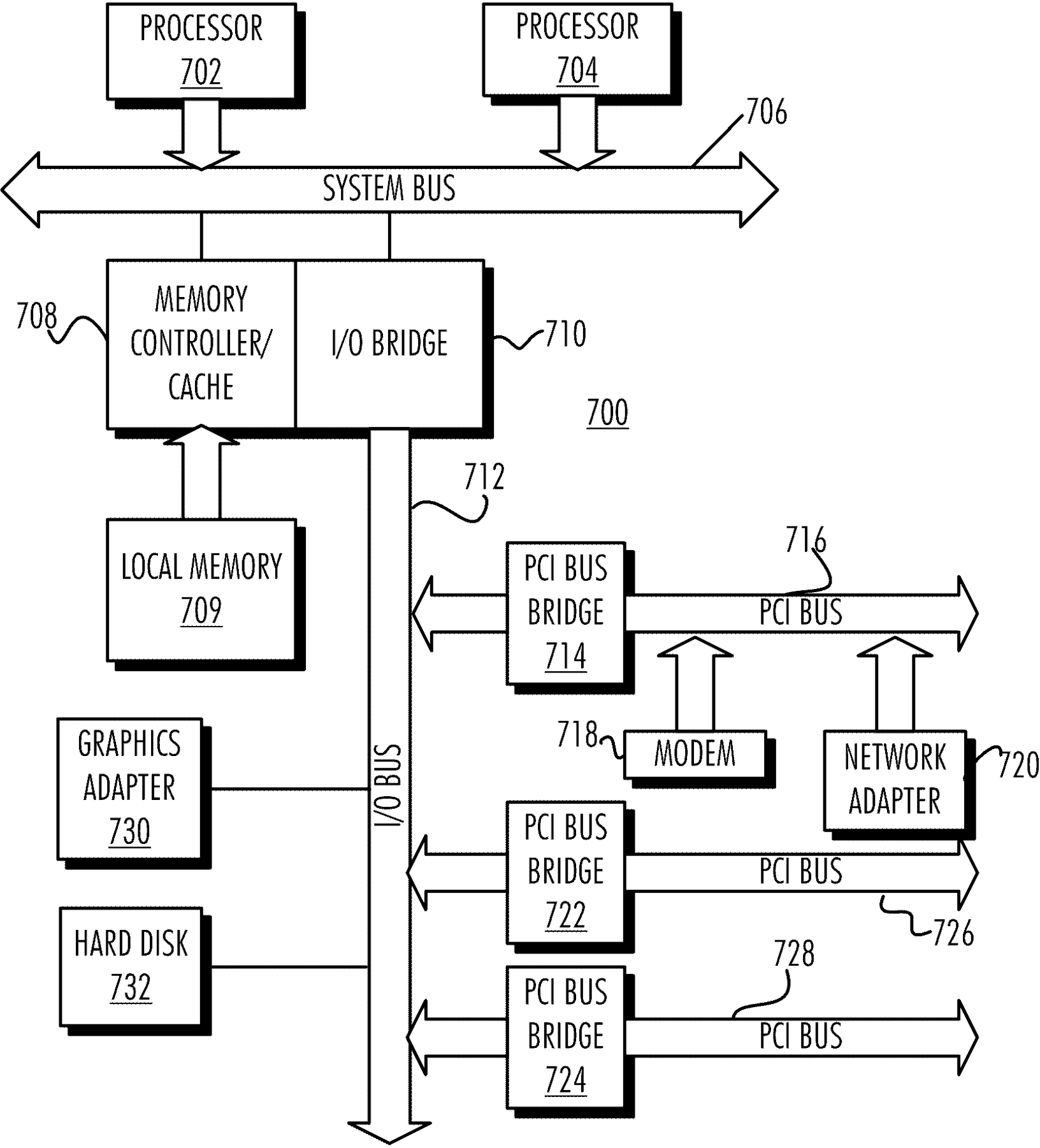
PROCESSOR
702
PROCESSOR
704
706
SYSTEM BUS
708
MEMORY
CONTROLLER/
CACHE
I/O BRIDGE
710
700
712
LOCAL MEMORY
709
716
PCI BUS
BRIDGE
714
PCI BUS
718
MODEM
NETWORK
ADAPTER
720
GRAPHICS
ADAPTER
730
I/O BUS
PCI BUS
BRIDGE
722
PCI BUS
726
HARD DISK
732
728
PCI BUS
BRIDGE
724
PCI BUS

FIGURE 7